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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 4290-3	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/IL02/00838	International filing date (day/month/year) 17 October 2002 (17.10.2002)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC IPC(7): GO6F 11/30, 17/60 and US Cl.: 713/200; 380/232, 231; 705/52, 54, 59		
Applicant SIMPLIMA LTD.		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>9</u> sheets.</p>		
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>		
Date of submission of the demand 13 April 2004 (13.04.2004)	Date of completion of this report 27 June 2004 (27.06.2004)	
Name and mailing address of the IPEA/US Mail Stop PCT, Am: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Authorized officer Norman M. Wright <i>Peggy H. and</i> Telephone No. (703) 305-3900	

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IL02/00838

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed.
- ☒ the description:
pages 1-37 as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.
- ☒ the claims:
pages NONE, as originally filed
pages NONE, as amended (together with any statement) under Article 19
pages 38-46, filed with the demand
pages NONE, filed with the letter of _____.
- ☒ the drawings:
pages 1-5, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.
- ☐ the sequence listing part of the description:
pages NONE, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. 18-22
- ☒ the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/IL02/00838**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. STATEMENT**

Novelty (N)	Claims <u>1-17 and 23-41</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>1-17 and 23-41</u>	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims <u>1-17 and 23-41</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-17 and 23-41 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claim as a whole particularly, a system or method for secure distribution of digital products and for secure control management of said product usage rights, having: at least one flexible structure component, at least one digital product record, at least one digital product control data record, at least one parameter descriptor, at least one builder component, and at least one flexible structure component controller; or the method having: dynamically assembling at least one flexible structure component, at least one builder sub-system, using at least one digital product record content record, at least one digital product control record, at least one parameter descriptor, distributing at least one flexible structure component to a remote client/location, associating a specific element of product supply chain, defining the content usage rights, prior to further distribution, delegating the rights for defining the content usage rights and securely controlling the operations of the flexible structure, as recited in claims 1 and 28 respectively.

Claims 1-17 and 23-41 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

NEW CITATIONS

I CLAIM:

1. A system for the secure distribution of digital products and for the secure control management of digital product usage rights, the system comprising the elements of:

5 at least one flexible structure component comprising digital content information and digital content usage control information in an integrative manner;

at least one digital product content data record to store original digital content information to be assembled and integrated into the least one flexible structure component;

10 at least one digital product control data record to store digital content usage control information to be assembled and integrated into the at least one flexible structure component,

15 at least one parameter descriptor to hold component access functional extensions to be assembled and integrated dynamically into the at least one flexible structure component;

at least one builder component to assemble and create the at least one flexible structure component using the at least one digital product content data record, the at last one digital product content usage control data record and the at least one parameter descriptor; and

20 at least one flexible structure component controller to control the operation of the at least one flexible structure component.

4. The system as claimed in claim 1 further comprises a least one add-on data record to be assembled and integrated into the at least one flexible structure component by the at least one builder sub-system is provided.

5

5. The system as claimed in claim 1 wherein the flexible structure component is dynamic, whereby protection against the activities of unauthorized entities attempting to achieve illegal manipulation.

10

4. The system as claimed in claim 1 wherein the digital product content data is encoded by at least one encoder function and by at least one encryption key.

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5. The system as claimed in claim 1 wherein the at least one digital product content data record is an electronic document.

6. The system as claimed in claim 1 wherein the at least one digital product content data record is a video recoding.

20

7. The system as claimed in claim 1 wherein the at least one digital product content data record is an audio recording.

4. The system as claimed in claim 1 wherein the at least one digital product content data record is a software application.

5 5. The system as claimed in claim 1 wherein the at least one digital product content data record is in a rich media format.

10. The system as claimed in claim 1 wherein the at least one flexible structure component comprises the elements of:

10 a component version descriptor for the storing of the type, version and the identification of the component;

a component structure descriptor for storing the description and allocation of the diverse parts of the components;

a rules and rights descriptor;

15 a stamp creation formula to be used for the calculation of the stamps;

a stamp checker function to check the availability and validity of the stamps;

a stamp registration function;

at least one stamp parameter to define the manner of stamp calculation;

20 at least one digital content data record;

at least one additional data record to store advertising material, promotions, translations and comments;

at least one stamp record;

a registration stamp record to signify suitable registration of the flexible structure component;

a final stamp record to store the value representing the sum of the at least one stamp;

5 an encryption key to be used for encrypting the digital product content record;

a component access functionality extension.

10 11. The system as claimed in claim 10 wherein the flexible structure component further comprises a dynamic working area to the storage, update and retrieval of accounting, tracking, camouflage data and working parameters.

15 12. The system as claimed in claim 10 wherein the flexible structure component further comprises at least one camouflage data record to be used for camouflaging the digital product content record.

20 13. The system as claimed in claim 10 wherein the flexible structure component further comprises at least one camouflage function to hide specific information and to prevent identification of content headers.

4. The system as claimed in claim 10 further includes at least one add-on information record to hold advertisement information, comment information, translation information and promotion information.

5 15. The system as claimed in claim 1 wherein the at least one parameter descriptor comprises the elements of:

at least one digital product access control function;

at least one digital product access parameter;

at least one flexible structure component structure definition;

10 at least one defense mechanism to prevent unauthorized usage, unrestricted access and illegal tampering.

16. The system as claimed in claim 1 further comprises the elements of:

at least one client application;

15 at least one network browser;

at least one text processor;

at least one video player;

at least one audio player.

20 17. The system as claimed in claim 1 wherein the at least one builder sub-system further comprises the elements of:

a billing system interface;

an archiving system interface;

a communication system interface.

5 18. The system as claimed in claim 1 wherein the at least one flexible structure component is provided with a unique physical structure, a unique combination of operative object and a unique combination of defensive mechanism.

10 19. The system as claimed in claim 1 further comprises a language scheme to provide for secure communication between the at least one builder subsystem and the at least one flexible structure component controller.

20 20. The system as claimed in claim 20 wherein the language scheme is updated periodically.

15 21. The system as claimed in claim 1 further includes a watch-dog function to examine substantially continuously the appropriate operation of the flexible structure component and the flexible structure component controller.

20 22. The system as claimed in claim 1 wherein the parts constituting the flexible structure component form a securely distributable and controllable digital product.

13. A method for the secure distribution of digital products and for the secure control of digital product usage rights, the method comprising the steps of:

dynamically assembling an at least one flexible structure component comprising a digital product and having a unique structure by an at least one builder sub-system utilizing an at least one digital product content record, an at least one digital product control record and an at least one parameter descriptor;

distributing the at least one assembled flexible structure component to a requesting remote location/remote client device associated with a specific element of a digital product supply chain;

defining the content usage rights of the at least one flexible structure component for the requesting remote site or remote client device prior to further distribution to the requesting remote locations or remote client devices;

delegating the rights for defining the content usage rights for the requesting remote locations or remote client devices prior to further distribution to the requesting remote locations/client devices; and securely controlling the operation of the flexible structure component by an at least one flexible structure component controller.

2. The method as claimed in claim 23 wherein the definition of the usage rights is performed without the establishment of a

communication link to a supplier remote location/controller remote location.

5 25. The method as claimed in claim 23 wherein the delegation of the rights for defining the content usage rights is performed without the establishment of a communication link to a supplier remote location/controller remote location.

10 25. The method as claimed in claim 23 wherein the communications network is a data network.

27. The method as claimed in claim 26 wherein the communications network is a Wide Area Network.

15 28. The method as claimed in 27 wherein the communication network is a Local Area Network.

20 29. The method as claimed in claim 30 wherein the communications network is a cellular network.

30 . The method as claimed in claim 23 wherein the element of the digital product supply chain is a digital product owner or digital product distributor.

1. The method as claimed in claim 23 wherein the element of the digital product supply chain is a reseller.

5 2. The method as claimed in claim 23 wherein the element of the digital product distribution network is a consumer.

3. The system as claim in claim 1 wherein the service device is linked to a digital product archive device.

10

4. The method as claimed in claim 23 wherein the basic product rules, definitions and limitations are defined by the digital product owner or the digital product distributor in a comprehensive manner and are embedded into the digital product during assembling of the flexible structure component.

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5. The method as claimed in claim 23 wherein the reseller element of the digital product chain is provided with the capability of enhanced control concerning the digital product usage rights.

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6. The method as claimed in claim 23 wherein the consumer element of the digital product supply chain is provided with the capability of limited control concerning the digital product usage rights.

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